

## Rotary hammer

Patent Number: EP0775555  
Publication date: 1997-05-28  
Inventor(s): DEMUTH ULRICH (DE); HABEDANK WINRICH (DE)  
Applicant(s): BLACK & DECKER INC (US)  
Requested Patent:  EP0775555, B1  
Application Number: EP19960308224 19961114  
Priority Number(s): DE19951045260 19951124  
IPC Classification: B25D16/00  
EC Classification: B25D16/00M  
Equivalents:  DE19545260,  US6109364  
Cited Documents: EP0454348; GB2157611

### Abstract

A rotary hammer with a tool holder (7) and a hammer mechanism (25,29,30) for the transmission of impact energy onto the drilling and/or chiselling bit (8) in the tool holder has a switching device which with a single actuator (50) makes it possible to switch between pure drilling operation, rotary hammering operation and pure hammering operation. The switching device acts on a coupling (15,20) with which the hammer mechanism is couplable with a rotatelly driven intermediate shaft (13), and has a slide part (60) for shifting a toothed wheel (41) between a first position for the rotary driving of the tool holder and a second position in which no rotary driving of the tool holder takes place. The coupling for the hammer mechanism can be separated by a cam part (56) coupled in untwistable manner with the actuator. The actuator extends through an opening (61) of the recess in the slide part and has a cam section (54) which, in one position, keeps the slide part in the second position, while, in the other positions of the actuator, the slide part is located in the first position. The cam part is provided at the section of the actuator projecting inwardly over the slide part.



Data supplied from the esp@cenet database - I2